

WHAT IS CLAIMED IS:

1. A transparent, fire resistant, polycarbonate composition comprising polycarbonate, poly(methylphenylsiloxane), and a salt based flame retardant wherein the polycarbonate composition has a UL94 V0 rating for fire resistance at thickness greater than or equal to about 1.6 millimeters.
2. The composition of Claim 1 wherein the polycarbonate has an average molecular weight of about 5,000 to about 100,000.
3. The composition of Claim 2 wherein the polycarbonate has an average molecular weight of about 10,000 to about 65,000.
4. The composition of Claim 3 wherein the polycarbonate has an average molecular weight of about 15,000 to about 35,000.
5. The composition of Claim 1 wherein the polycarbonate has a melt viscosity index of about 4 to about 30 cm³/10 mm.
6. The composition of Claim 1 wherein the poly(methylphenylsiloxane) has a viscosity of about 1 to about 300 centistokes.
7. The composition of claim 6 wherein the poly(methylphenylsiloxane) has a viscosity of about 4 to about 20 centistokes.
8. The composition of Claim 1 wherein the poly(methylphenylsiloxane) is present in amounts of about 0.02 to about 1.5 weight percent based on the total resin weight.

9. The composition of Claim 1 wherein the salt based flame retardant is selected from the group consisting of alkali metal salts of inorganic protonic acids, alkaline earth metal salts of inorganic protonic acids, alkali metal salts of organic Brönsted acids, alkaline earth metal salts of organic Brönsted acids.

10. The composition of Claim 9 wherein the salt based flame retardant is a sulphonate.

11. The composition of Claim 10 wherein the salt based flame retardant is potassium diphenylsulfon-3-sulphonate.

12. The composition of claim 11 wherein the potassium diphenylsulfon-3-sulphonate is present in amounts of about 0.55 wt% or less, based on the total resin weight.

13. The composition of Claim 11 wherein the potassium diphenylsulfon-3-sulphonate is present in amounts of about 0.25 wt % or less, based on the total resin weight.

14. The composition of Claim 10 wherein the salt based flame retardant is potassium-perfluorobutane-sulphonate.

15. The composition of Claim 14 wherein the Rimar salt is present in amounts of about 0.05 wt% to about 0.12 wt% based on the total weight of the composition.

16. The composition of Claim 1 wherein the salt based flame retardant is present in amounts of about 0.01 wt% to about 1.0 wt% based on the total resin weight.

17. The composition of Claim 1 further comprising a filler, reinforcing agent, heat stabilizer, antioxidant, light stabilizer, plasticizer, antistatic agent, mold releasing agent, additional resin, blowing agent or combinations comprising at least one of the foregoing.

18. A transparent, fire resistant polycarbonate composition produced by premixing polycarbonate resin, poly(methylphenylsiloxane) and a salt based flame retardant to form a premix, melting the premix and mixing the melted premix.

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